

Response to Office Action dated 5/16/05
Title: Multiple Engine Test System
Date Filed: 03/09/04

Serial Number: 10/801,171
Inventors: Cline et al.
Attorney Docket No.: NC 96090

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Twice Amended) A multiple engine test system, comprising:
 - a. a removable engine test bed system for holding and testing a specific engine type, the engine test bed system comprising customized testing components for the specific engine type, the customized testing components mounted on the engine test bed system;
 - b. a mounting frame, the removable engine test bed system able to rest on top of the mounting frame and be removable from the mounting frame; and
 - c. a handling system for transporting the engine test bed system from storage to the mounting frame, the handling system being a two rail overhead track system.
2. (original) The multiple engine test system of claim 1, wherein the multiple engine test system further comprises an engine interface harness for adapting specific engine connections to universal testing connections and components.
3. (original) The multiple engine test system of claim 2, wherein the multiple engine test system further comprises an exhaust duct, the specific engine type having an engine exhaust, the exhaust duct intaking discharge from the engine exhaust.
4. (original) The multiple engine test system of claim 3, wherein the exhaust duct is adjustable to accommodate different types of engines.

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5. (Twice Amended) A multiple aircraft engine test system, comprising:
- a. a removable transportable engine test bed system for holding and testing a specific aircraft engine type, the transportable engine test bed system comprising customized testing components for the specific aircraft engine type, the customized testing components mounted on the engine test bed system, the customized testing components being at least a dynamometer and a flywheel;
 - b. a mounting frame, the engine test bed system able to rest on top of the mounting frame, the transportable engine test bed system removable from the mounting frame and removable from the mounting frame;
 - c. a handling system for transporting the transportable engine test bed system from storage to the mounting frame, the handling system being an overhead track system;
 - d. an exhaust duct, the specific aircraft engine type having an engine exhaust, the exhaust duct intaking discharge from the engine exhaust, the exhaust duct being adjustable to accommodate different types of engines; and
 - e. an engine interface harness for adapting specific engine connections to universal test cell connections and components.
6. (original) The multiple engine test system of claim 5, wherein the engine test bed system comprises of support beams, support columns, top beam members, and top member connecting beams, the support columns perpendicularly attached to the support beams, the top beam members perpendicularly attached to the support columns, the top member connecting beams perpendicularly attached to the top beam members, the support beams communicating with the mounting frame.

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7. (original) The multiple engine test system of claim 6, wherein there are two support beams and two top beam members.
8. (original) The multiple engine test system of claim 7, wherein the mounting frame comprises of a platform and a pedestal, the pedestal disposed on top of the platform, the two support beams resting on the pedestal.
9. (original) The multiple engine test system of claim 8, wherein the mounting frame includes two pedestals, with each support beam resting on a pedestal.
10. (Amended) The multiple engine test system of claim 9, wherein the ~~handling system~~ two rail overhead track system comprises of two overhead rails and an overhead hoist which can transport the engine test bed system and the engine, and ~~an overhead rail system on which the overhead hoist can ride on~~ the overhead hoist being able to ride on the overhead rails.
11. (original) The multiple engine test system of claim 10, wherein the multiple engine test system further comprises of standardized connectors and adaptors, the standardized connectors and adaptors attachable to the testing components for the specific engine type.
12. (original) The multiple engine test system of claim 11, wherein the overhead hoist includes a hook system and a cord system, the hook system holding the cord system, the cord system for holding the transportable engine test bed system.